4/18/2018

Print

Purchasing Receipts

PO No Sumismus Rel	Purchased	For	Farinment		Dire	Docorroad	Accounting					T.	-	-	9
		Part Project No	Description Part Project Lyupmon Otty			Quantity	Quantity Job No No No	No	Status	Keceive	Date Price/Unit Days Due	Aging F		Total	Supplier Name
Net 30 R3.750-W	MT-NYLON 6- Nylon 6 White R3.750-W Round Bar 3.750" Dia.			2 4/	2 4/18/2018	2		S062427	Stock	4/18/2018 \$ 72.09 / ft	572.09 / ft	0	₩	81.44 81.00 Q	\$144.18 McMaster- Carr Supply
MBRO	MBRONZR1.000 Bronze Round Bar 1.000"": MATERIAL: OIL IMPREGNATED SINTERED BRONZE ROUND BAR AS PER SAE 841 TYPE 1, CLASS A OR AMS 4805 OR AMS 4805 OR AMS 4805 OR ANT B438 GRADE 1, TYPE 2 OR MIL-B-5687D TYPE 1, GRADE 1			-		-		S062428	Stock	4/18/2018	\$ 60.19 / ft	0		Ñ ₩ Ö Ø Ö Ö Ö Ö Ö Ö Ö Ö Ö Ö Ö Ö Ö Ö Ö Ö Ö	S65.00 McMaster- Carr Supply Co,
			Total:	3		6							\$20	\$209.18	T

Plex 4/18/2018 11:56 AM dart. Tollis. Andrew



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO039616

Tel (613) 632-5200

Supplier:

MCM001-VU

McMaster-Carr Supply Co,

P.O. Box 7690

Chicago, IL 60680-7690 USA

Phone: 330 995 5500

Fax: 330 995 9600

PO No:

PO039616

PO Date: **Due Date:**

4/16/18 4/18/18

Purchase Order

Revision: **Revision Date:**

Ship-To Contact:

Lavoie, ChantalPhone:

clavoie@dartaero.com

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada Phone: 613-632-5200 Via:

Ground

Pymt Terms:

2% 10 Net 30

Freight Terms:

Special Comments:

Items

ine tem	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
	MT-NYLON 6- R3.750-W	8538K68	Nylon 6 White Round Bar 3.750" Dia.	Firmed	4/18/18	2 ft	200 ft	2 ft	\$72.09/ft	\$144.18
2	MBRONZR1.000	6.5" long	Bronze Round Bar 1.000": MATERIAL: OIL IMPREGNATED SINTERED BRONZE ROUND BAR AS PER SAE 841 TYPE 1, CLASS A OR AMS 4805 OR ASTM B438 GRADE 1, TYPE 2 OR MIL-B-5687D TYPE 1, GRADE 1 receive ft		4/18/18	1.08 ft	1.6800	1 ft	\$60.185185/ft	\$65.00

Grand Total:

\$209.18

Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 4/16/18 2:03 PM dart.lavoie.chantal



Packing List

200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada Purchase Order PO039616

Order Placed By Chantal Lavoie

McMaster-Carr Number 2224014-01

Page 1 of 1

04/16/2018

Line Product	Ordered Ship	pped
1 8538K68 Off-White Nylon Rod, 3-3/4" Diameter, 2' Length	2 Feet	2
2 8932K45 Oil-Filled 841 Bearing Bronze Rod, 1" Diameter, 6-1/2" Long	2 Each	2

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MBCC DATE:	100 ZR1	000 PO / BATCH NO.: 0396/6/50624
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	11	THICKNESS ORDERED: 1.000 THICKNESS RECEIVED: 1.000 SHEET SIZE ORDERED: 1/A SHEET SIZE RECEIVED: 1/A
DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	YIM	
CORRECT FINISH	BA	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	Y) N	
ORRECT MATERIAL PER M-DRAWING	(Y) N	ASTM B438
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	YW	
CORRECT REF # TO LINK CERT	W N	10# 039616 Part # 8932K45
PRRECT MATERIAL IDENTFICATION	W N	

CUT SAMPLE PIECE OF	MATERIAL A			SS CHECK.	
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

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N

testers located in the Quality Office

QC 18 INSPECTION		
QC 10 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:_	11 11	SIGNED OFF BY:
DATE:	9-89APR 1 8 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

CORRECT M# ON THE MATERIAL

DOES THIS MATERIAL REQUIRE

ENGINEERING SIGN OFF DOES THIS REQUIRE AN EXTRUSION REPORT Specifications Met. ASTM B433

Powdered bronze is pressed and then impregnated with SAE 30 oil to make this material self-lubricating. Use it to make bearings and parts for hard-to-reach areas that would be a figurity to at well pumps and lurbine blades.

OD	Tolerance Rating	ID		3" Lg.	
3/16"	Wall Thick.			м.	
1"	Oversized	5,€"	8931K111	\$17.27	\$26.57
1/4" W	/all Thick,				
1"	Oversized	1:27	8931K121	18.27	28.11
1 1/6"		2 (B**	8931F131		34.73
1 1/4"			8931K141	24.27	37.34
1.56	Oversized	7.97	8931K151	28:14	43.29
1 1/2	Oversized		9931K161	30.66	47.17
1 3/4	Oversized	1 1:4"	5931K171	31.26	48.09
2"	Oversized	1 1/2"	89318181	36.08	55.51
2 (74"	Oversized	1-3/4"	8931K191	41,83	64.35
5/16" \	Wall Thick.				
1 128"	Oversized	5250	8901K201	24.02	36.96
1.194"	Oversized	\$1/8."	8931k211	25.08	38.58
1 1/2"	Oversized	7:3"	6931K221	32.23	49.59
1 525"	Oversized	1**	89315231	34.11	52.47
3/8" W	all Thick.				
1 1/3"	Oversized	1/2"	8931K241	25.81	39.70
1 3/8	Oversized	5:87	8931K251	33.56	51.63
1 1/2"	Oversized	3/4"	\$931K261	32.28	49.66
7 3.4"	Oversized	4"	8931K271	38.42	59.11
2"	Oversized	1 1/4"	8931K281	42.00	64.62
2 1/4"	Oversized	1 1:2"	8931K291	50.56	77.78
2 7:2"	Oversized	1 3/4"	5931K301	53.57	82.42
2 344"	Oversized	2"	8931K311	58.79	90.44
3"	Oversized	2 1:4"	8931K321	68.12	104.80
3 44"	Oversized	3"	\$931k331	82.73	127,27
	Tolerance			3"	6 1/2"
OD	Rating	ID		Lg.	Lg.
7/16" V	Vall Thick.				O CHRONICA NA
1 1/2"	Oversized	5/5"	8931K341	\$34.35	\$52.84
1/2" W	all Thick.				
1 1/2"	Oversized	1/2"	8931K351	37.06	57.02
1.366"	Oversized	354"	8931K361	43.90	67.54
2"	Oversized	1"	\$931K371	48.93	75.28
2 14"	Oversized	1 1/4"	8931K331	58.86	90.55
2 1/2"	Oversized	1 1/2"	8931K391	61.91	95.25
2 3/4"	Oversized	1 3/4"	8931K401	68.61	105.55
3"	Oversized	2"	8931K411	78.49	120.76
3 1/4"	Oversized	2 1/4"	8931K421	87.10	134.00
3 1/2"	Oversized	2 1/2"	8931K431	92.86	142.86
4"	Oversized	3"	8931K441	102.80	158.15
5/8" Wa	Il Thick.				
2"	Oversized	335"	9931k451	53.95	83.00
2 1:2"	Oversized	1 155"	8931K461	69.39	106.75
3"	Oversized	1 374"	89318471	84.51	130.02
3 1020	Oversized	2 1:2"	8931K481	116.76	179.63
11/16"	Wall Thick.				
24	Oversized	435"	8931K491	56.20	86.46
					00110
	Tolerance			3"	6 1/2"
OD	Rating	ID		Lg.	Lg.
	Il Thick.		***************************************		
2"	Oversized	4 500	8931K501	\$60.68	\$93.36
2 1/2"	Oversized	± **	8931K511	80.28	123.50
3"	Oversized	1 1/2"	8931K521	92.44	142.21
4"	Oversized	2 1/2"	8931K531	136.51	210.02
7/8" Wa	Il Thick.				
3"	Oversized	1 1/4"	8921F541	97.87	150.57
3-172"	Oversized		9931K551	133.25	205.00
				30,20	200,00
1" Wall	Inick.	411	O.S. D. LEWIS CO.	454	100
3"	Oversized	1"	8931K561	104.20	160.31
	Oversized		8931k571	156.57	240.87
4 1/2"	Oversized Oversized	2 1/2"	8931K591 8931K591	190.41	292.94
6"	Oversized	4"	8931K501		319.64
7"	Oversized Oversized	5"	8931K501	256.87 306.15	395.18 471.00
		4	UZO INIUT!	JUD: 10	471.00
	fall Thick.				
6"	Oversized	3"	8931K621	327,13	503.27

Oil-Filled 841 Bearing Bronze Rods



- Yreld Strength, 11,000 psi
 Hardness, Not Rated
 Temper, Not Rated
 Heal Treatable, No.

Heal Treatable, No.
 Seed/cations Met ASTM
B439

Powdered bronze is pressed and then impregnated with SAE 30 oil to make this material self-fubricating. Use it to make bearings and parts for hard-to-reach areas that would be afficult to access for tubrication, such as well pumps and turbine blades.

1 2011-07- 19

REV. A SHEET 1 OF 1 10.10.25 BY DATE BRONZE ROUND BAR

OCTOPRED 2016 STORED FOR ABSORDER UNIT

COPRED 2016 STORED FOR ABSORDER UNIT

DE SCOCKES THE ABSORDER CONTRACTOR ABSORDER UNIT

DE SCOCKES THE ABSORDER CONTRACTOR ABSORDER UNIT

DE SCOCKES THE ABSORDER CONTRACTOR ABSORDER ABSORD DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
WBRONZR
SHEE 10.10.25 A NEW ISSUE CHECKED
MFG. APPR.
APPROVED
DE APPR.
DATE
10 DRAWN DESIGN

PURCHASE MATERIAL: OIL IMPREGNATED SINTERED BRONZE ROUND BAR

SAE 841 TYPE 1, CLASS A OR AMS 4805 DR A SIM B499 BRADE 1, TYPE 2 OR MIL-B-56870 TYPE 1, GRADE 1 SPECIFICATION:

MBRONZRD.DDD

PART NUMBER:

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8 ROUND BAR = MBRONZR0.625

SPECIFICATION CONTROL DRAWING

21. 1 2

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: DATE:	MT-Nylon (6-R3:750 APR 1 8 2018	PO / BATCH NO. 039616/5062427
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	V45 2, 2	THICKNESS ORDERED: 3-750 THICKNESS RECEIVED: 3-750 SHEET SIZE ORDERED: 4/A SHEET SIZE RECEIVED: 4/A

DESCRIPTION	(CI	CR neck (N)		COMMENTS
SURFACE DAMAGE	Y	IN		
CORRECT FINISH	Y	N		
CORROSION	Y	N		
CORRECT GRAIN DIRECTION	W	N		
CORRECT MATERIAL PER M-DRAWING	(7)	N	Astm 05989	
CORRECT THICKNESS	(1)	N		
PHOTO REQUIRED	Y	(N)		
CORRECT REF # TO LINK CERT	(4)	N	6 # 39616	Par + #8538168
CORRECT MATERIAL IDENTFICATION	8	N		101/4/03/0100
CORRECT M# ON THE MATERIAL	(4)	N		
DOES THIS MATERIAL REQUIRE				
ENGINEERING SIGN OFF	Υ	R		
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(N)		

CUT SAMPLE PIECE OF	MATERIAL A			SS CHECK.	
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: 11	SIGNED OFF BY:
DATE: APR 1 8 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

۵ APPROVED WW NYLON 6 ROUND BAR DATE BY 17.08.23 VM DESCRIPTION NEW ISSUE ELN 17-649 EG. 5/8" ROUND BAR = MT-NYLON 6-R0.625-W WHERE "D.DDD" = DIAMETER IN INCHES WHERE C = COLOR [W= WHITE] / [B= BLACK] 3 REV. SPECIFICATION CONTROL DRAWING MENYLON O-RID. DDDJ-C NYLON 6 ROUND BAR ASTM D5989 5 PURCHASE MATERIAL: SPECIFICATION: PART NUMBER:

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McMASTER-CARR

Nylon

For comparative information about plastics, see page 3692.

Nylon Sheets, Bars, and Strips



With excellenct wear and abrasion resistance, these nylon 6/6 sheets, bars, and strips are often used for bearings, gears, and other high-wear parts. They resist gasoline, mineral pit, and father high-wear parts.

- Color. Off-White or Black

 Color. Off-White or Black

 Temperature Range: -40" to 185" F

 Fensile Strength: 11.200 psi (Excellent)

 Impact Strength: 1.0 ft -lbs./in (Good)

- · For Use Outdoors, No

For Use Outdoors, No
Specifications Met
Off-White:
Less than 1/8" This ASTM D5989, STM D6779, Made of
FDA Listed Material.
107 J 1/10 Stehdard 51 for Drinking
Water, UL 94-IB
1/8" Thick, and larger ASTM D5989, ASTM D6779, Made of
FDA Listed Material, NSF/ANSI Standard 61 for Drinking
Water, UL 94/10
Value, 18, 194/10
Value, 194 Water, UL 94v2 Black ASTM D5989, ASTM D6779

		Off-W	hite	Blac	ck
Wd	Lg		Each		Each
1/32		. (-0.003" to	+0.003"	Tolerance)	
6"	6"	8539K8S1	\$1.74	8540K311	\$2.24
12"	12"	8539K23	3.66	3540K121	4.24
12"	24"	8539K29	6.68	8540K221	7.73
12"	48"	8539K696	12.71	8540K721	14.71
24"	24"	3539K891	12.71	8540K421	14.71
24"	48"	8539K491	21.54	8540K621	24 94
3/64	'Thick	(0" to +0.00	6" Toler	ance)	
6"	6"	8539K893	2 90	8540K313	3.37
12"	12"	85891,232	6.08	8540K123	7 07
12"	24"	8539K292	11.09	8540K223	12.90
12"	43"	85391,898	21 10	8540K722	24.55
24"	24"	8539K893	21.10	8540K423	24.55
24"	43"	8559A493	35.76	8540K623	41.61
1/16"	Thick	(-0.005" to	+0.005"	Tolerance)	
6"	6"	\$539K884	3.24	8540K314	3.68
12"	12"	8539K11	6.80	8540K111	7 58
12"	24"	8559k31	12 58	9540K211	14.68
12"	48"	8539K71	23.63	8540K711	25.80
24"	24"	8539K91	23 63	\$540K411	25.97
24"	48"	3539K51	40.00	8540K611	45.49
5/64"	Thick.	(-0.009" to	0.009"	Folerance)	
5"	6"	8539F 885	4.03	8540K315	5 34
12"	12"	5539K233	9 65	S540K124	11.20
12"	24"	3539E311	17.59	8540K224	20.43
12"	48"	8539K711	31.77	8540K724	36.90
24"	24"	5559K911	31.77	3540K424	36.90
24"	48"	8539K511	56.74	8540K624	65.89
3/32"	Thick.	(-0.007" to	0.007" 7	(olerance)	
6"	6"	8539K885	4.09	8540K316	4.65
12"	12"	3539612	10.96	8540K112	13.04
12"	24"	8539K32	20.23	8540K212	23.81
12"	48"	8539K72	36.49	8540K712	40.60
24"	24"	8539K92	36.49	8540K412	40.60
24"	48"	8539K52	64.96	8540K612	73.80
164"	Thick.	(-0.016" to 4	0" Toler	ance)	
6"	3"	85394887	4.38	8540K317	5.10
12"	12"	8539Y234	11.82	8540K125	13.75
12"	24"	8539K321	21 54	8540K225	25.07
12"	48"	8539F721	38.92	8540K725	45.29
24"	24"	8539K921	38.92	8540K425	45.29
24"	48"	35391.521	69.50	8540K625	80.88